




Siddharth Bhattacharjee

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SKILLS

Languages and frameworks: Golang, C, C++, Python, Typescript, Java, Rust, Solidity, Django, GraphQL, React.
Tools: Kubernetes, Helm, AWS, GCP, Terraform, gRPC / Protobuf, Apache Kafka, PostgreSQL, Prometheus.

EDUCATION

University of Waterloo

Graduated in April 2023

Bachelor of Applied Science in Computer Engineering

- **Relevant Courses:** Programming for Performance using Rust, Advanced Algorithm Design, Distributed Systems, Computer Security, Real-Time Operating Systems, Compilers, Database Systems, Computer Networks.

EXPERIENCE

Carta

Kitchener, ON

Software Engineering Intern

Sept 2022 - Dec 2022

- Shipped new onboarding workflow for internal stakeholders to onboard **\$325M** of assets onto the Carta platform.
- Migrated onboarding frontend from monolith to micro-frontend, reducing build times from 24h to 10 minutes.
- Decomposed subscriptions domain into dedicated service, greatly improving composability and developer experience.

Zynga

Toronto, ON

Software Engineering Intern, Data Ingestion

Jan 2022 - April 2022

- Architected and deployed observability infrastructure for new serverless data streaming pipeline.
- Built generic metrics library in Go to serve StatsD-like metrics to different providers like AWS Cloudwatch and Datadog.
- Streamlined QA and debugging pipelines by improving monitoring and logging using Splunk, Nagios and Terraform.

Dapper Labs

Vancouver, BC

Backend Engineer Co-op, NBA TopShot

Jan 2021 - April 2021

- Architected a data verification platform from scratch in Go to significantly accelerate Customer Support workflows.
- Optimized GraphQL queries by migrating resolvers to a dedicated read service and utilizing pagination and field querying.
- Led development on implementing new restrictions on transferring NFTs to minimize fraud on the platform.
- Created data migration jobs and corresponding event handlers to facilitate aforementioned feature work and data analysis.

DBRS Morningstar

Toronto, ON

Software Engineering Intern

May 2019 - August 2019

- Designed bulk import tool allowing analysts to instantiate **1000+** ratings through Excel spreadsheets at once.
- Created **view models** used for PDF generation to automate data retrieval, reducing workflow for analysts by **45%**.
- Developed new components in Angular 8 and corresponding RESTful API endpoints using ASP.NET Framework.

Waterloop Student Design Team

Waterloo, ON

Server Systems Developer

Jan 2019 - April 2019

- Designed Golang server and Protobuf interfaces for data streaming between desktop server and pod over WebSockets.
- Created Javascript + MongoDB client to test and log incoming pod information.

PROJECTS

rcuckoo (Rust)



- Efficient 8-bit Cuckoo Filter implementation in Rust, as shown [here](#).

1nil (Python, gRPC, PostgreSQL)



- Open-source video streaming and data analysis platform for minor and amateur sports leagues.

Twitch Data Tool (Python, Pandas, Matplotlib)



- Tool to analyze real-time Twitch messages and display relevant information like user engagement and viewer count.